

BOROUGH OF NELSON.

MEDICAL OFFICER
OF HEALTH'S
REPORT

FOR 1920.

R. G. MARKHAM, M.B., D.P.H.,

Medical Officer of Health.



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BOROUGH OF NELSON.

HEALTH COMMITTEE.

COUNCILLOR J. H. S. AITKEN, Chairman.

The Mayor - COUNCILLOR R. W. GIBSON.

ALDERMAN E. BOOTHMAN.

„ W. FELL.

„ W. E. RILEY.

COUNCILLOR J. BLAKEY.

„ A. CAMPBELL.

„ J. DAVIES.

„ R. DUCKWORTH.

A. SMITH.

„ H. SUTCLIFFE.

„ A. SYKES.

OFFICERS OF THE PUBLIC HEALTH DEPARTMENT.

Medical Officer of Health R. G. MARKHAM, M.B., D.P.H.

Chief Sanitary Inspector Mr. J. W. INGHAM.

Assistant Inspector Mr. S. GRINDROD.

Lady Health Visitor Miss B. EDMONDSON, L.O.S.

Second Lady Visitor Miss E. WARDLOW, C.M.B.

Chief Clerk Mr. B. GREENWOOD.

LIST OF LOCAL AND ADOPTIVE SANITARY ACTS ADMINISTERED BY THE COUNCIL.

Nelson Water and Gas Act, 1866.

Nelson Local Board Act, 1879.

Nelson Improvement Act, 1886.

Nelson Local Board Act, 1888.

Nelson Corporation Act, 1903.

Nelson Provisional Orders, 1871, 1873, 1876, 1890, 1895, 1897,
1899, 1904.

Borough of Nelson (Extension) Order, 1897.

The Infectious Disease (Notification) Act, 1889.

The Public Health Acts Amendment Act, 1890, adopted 1891.

The Infectious Disease (Prevention) Act, 1890, adopted 1896.

The Notification of Births Act, 1907, adopted 1911.

The Public Health Acts Amendment Acts, 1907, parts adopted 1912.

LIST OF BYELAWS RELATING TO SANITARY MATTERS IN FORCE IN THE BOROUGH.

Date of Adoption.

1890—Common Lodging Houses.

1897—New Streets and Buildings.

1897—Offensive Trades :—

Blood Boiler.

Blood Drier.

Bone Boiler.

Feilmonger.

Tanner.

Leather Dresser.

Soap Boiler.

Tallow Melter.

Fat Melter.

Tripe Boiler.

Glue Maker.

Size Maker.

Gut Seraper.

1897—Nuisances.

1897 & 1907—Slaughter Houses.

1911—Dairies, Cowsheds and Milkshops Regulations.

1912—Sanitary Conveniences.

STATISTICAL SUMMARY.

1920.

Area—3,466 acres.

Population—Census, 1911	39,479
,, For Birth Rate	43,095
,, For Death Rate	43,095
Inhabited Houses—Census, 1911	9,154
Births—Males, Legitimate	343
,, ,, Illegitimate	18
,, Females, Legitimate	320
,, ,, Illegitimate	12
Total	693
Birth Rate per 1,000 of population	16.08
,, ,, ,, Illegitimate	0.69
Deaths Registered	410
Death Rate per 1,000 of population corrected	9.5
Deaths from Principal Zymotic Diseases	13
Zymotic Death Rate per 1,000 of population	0.3
Deaths of Infants under 1 year:—	
Legitimate	52
Illegitimate	2
Total.....	54
Infantile Death Rate per 1,000 Births	77
,, ,, ,, ,, Legitimate	78
,, ,, ,, ,, Illegitimate	66
Premature Births	10
Violent Deaths and Suicides	10
Total.....	20
Rate of above, per 1,000 of population.....	.46
Number of persons per house (Census, 1911)	4.31
Number of persons per acre (Census, 1911)	11.4
Excess of Births over Deaths.....	283

NELSON, APRIL, 1921.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have pleasure in submitting my Report on the Health and Sanitary Conditions of the Borough for the year 1920, and may say that in its compilation attention has been paid to the Memorandum of the Ministry of Health regarding the arrangement and sequence of the various particulars submitted.

NATURAL AND SOCIAL CONDITIONS OF THE DISTRICT.

Population, Census 1911	39,479
,, Estimated 1920	43,095

PHYSICAL FEATURES AND GENERAL CHARACTER OF THE DISTRICT.

Area of Borough	3,466 acres.
Contour	Hilly.
Ordnance level, lowest point	350 feet.
,, ,, highest point	1,100 feet.
,, ,, Centre of Town	458 feet.
Drainage of Surface Water...Natural, chiefly to Walverden Stream and Pendle Water.	
Subsoil...Clay, with under stratum of sandstone and out croppings of coal.	
Rainfall	Rather Heavy.

RAINFALL DURING THE YEAR 1920.

Month.	Ogden No. 1	Coldwell			Victoria Park
		No. 1	No. 2	No. 3	
January	4.64	3.83	5.095	2.80	5.81
February	5.40	2.97	3.72	2.80	4.63
March	3.88	3.945	4.645	2.75	4.08
April	4.12	5.17	5.83	5.00	4.76
May	4.53	5.155	6.34	4.65	6.43
June.....	2.90	2.85	3.05	2.55	1.85
July	8.12	6.155	6.78	5.45	6.56
August	3.06	1.62	1.875	1.59	2.16
September	2.68	2.36	2.7	1.92	2.31
October	1.91	3.14	3.57	2.55	1.74
November	2.94	2.1	2.7	1.87	3.08
December	3.25	2.835	3.635	2.29	3.42
	47.43	42.13	49.94	36.22	46.83

RAINFALL FOR FIVE PREVIOUS YEARS.

	Ogden Inches.	Coldwell Inches.
1915	37.45	41.41
1916	42.18	49.34
1917	37.24	45.88
1918	62.14	80.04
1919	40.21	40.26
Average	43.84	51.38

SOCIAL CONDITIONS.

In normal times the population may be classified as well-to-do artizan, with a less than average of the very poor. The chief occupation is in the Textile trade, mostly Cotton Weaving, with the necessary associated trades.

VITAL STATISTICS.

BIRTHS.

Total Number of Registered Births	693
„ „ „ „ Males	361
„ „ „ „ Females	332
Legitimate Births, Males	343
„ „ Females	320
Illegitimate Births, Males	18
„ „ Females	12
Birth Rate, calculated on population of 43,095.....	16.08 per 1,000
Increase on last year	7.08

DEATHS.

Total Number of Deaths in District	374
Number of Deaths of Non-Residents	11
Number of Deaths of Residents occurring outside the Borough	47
Total Nett Deaths for the year	410
Death Rate calculated on population of 43,095.....	9.5 per 1,000
Decrease on last year	2.1
Excess of Births over Deaths	283
Excess of Deaths over Births last year	93

SUMMARY OF DEATHS AT VARIOUS AGE PERIODS.

Deaths under 1 year	54	} 63 deaths under 5 years
Deaths of 1 year and under 2 years	2	
„ 2 years „ 5 „	7	
„ 5 „ „ 15 „	13	} 347 deaths of 5 years and over
„ 15 „ „ 25 „	17	
„ 25 „ „ 45 „	66	
„ 45 „ „ 65 „	107	
„ 65 „ over	144	

A detailed list of the causes of and ages at death is to be found at the end.

Births and Deaths Classified in Wards.

Ward	Births Registered	Deaths Registered	Infantile Deaths Registered	Infant Mortality Rate
Bradley	116	72	9	77
Central	63	37	3	47
Netherfield	119	83	15	126
Southfield	111	69	11	99
Walverden	194	106	13	67
Whitefield	90	43	3	33
Total	693	410	54	77

Monthly Analysis of Births in Wards, 1920.

Month	Bradley	Central	Nether- field	South- field	Walver- den	White- field	Total
January	12	10	15	8	21	5	71
Februry	8	5	10	12	15	9	59
March	8	7	11	11	13	13	63
April	10	6	8	10	23	4	61
May	9	4	7	6	21	7	54
June	12	4	13	11	17	6	63
July	9	5	9	9	16	10	58
August	9	3	6	15	10	9	52
September	8	3	8	6	12	6	43
October	10	8	13	7	10	10	58
November	8	3	8	8	15	2	44
December	13	5	11	8	21	9	67
Total	116	63	119	111	194	90	693

Monthly Analysis of Deaths in Wards, 1920.

Month	Bradley	Central	Nether- field	South- field	Walver- den	White- field	Total
January	9	3	7	9	12	6	46
February	1	3	3	3	5	3	18
March	6	7	9	2	15	2	41
April	4	3	9	6	11	9	42
May.....	7	2	9	4	5	2	29
June.....	9	4	5	9	5	2	34
July	4	2	6	3	6	...	21
August	6	...	3	8	8	4	29
September	3	2	8	2	3	4	22
October	8	3	8	6	3	2	30
November	6	4	5	3	10	2	30
December	9	3	5	5	8	2	32
Gross Total.....	72	36	77	60	91	38	374
Transfers in ...	4	1	10	9	17	6	47
Transfers out ...	4	...	4	...	2	1	11
Nett Total	72	37	83	69	106	43	410

Birth and Death Rates of Nelson for the last Ten years. (per 1000 of population).

Year	Birth Rate	Total Death Rate	Zymotic Death Rate	Infantile Death Rate per 1000 Births
1911	18.3	10.1	1.22	77
1912	16.9	11.8	1.05	93
1913	17.3	11.5	0.73	91
1914	16.9	11.4	1.10	122
1915	15.2	10.9	0.67	92
1916	14.1	11.7	0.80	112
1917	10.8	12.2	0.57	106
1918	9.5	14.2	0.60	113
1919	9.0	11.6	0.28	69
1920	16.0	9.5	0.30	77
Average for 10 years.	14.4	11.5	0.73	95

INFANTILE MORTALITY.

Total Number of Deaths under 1 year of age	56
Number of Deaths of infants non-resident	2
	—
Nett Deaths	54
Infantile Mortality Rate per 1,000 births	78
Increase on last year per 1,000 births	9
Average for the last ten years per 1,000 births	95

A chart is appended showing the Infantile Death Rate in the various Wards during the past five years.

The causes of death of Infants during the last ten years are shown in the following table.

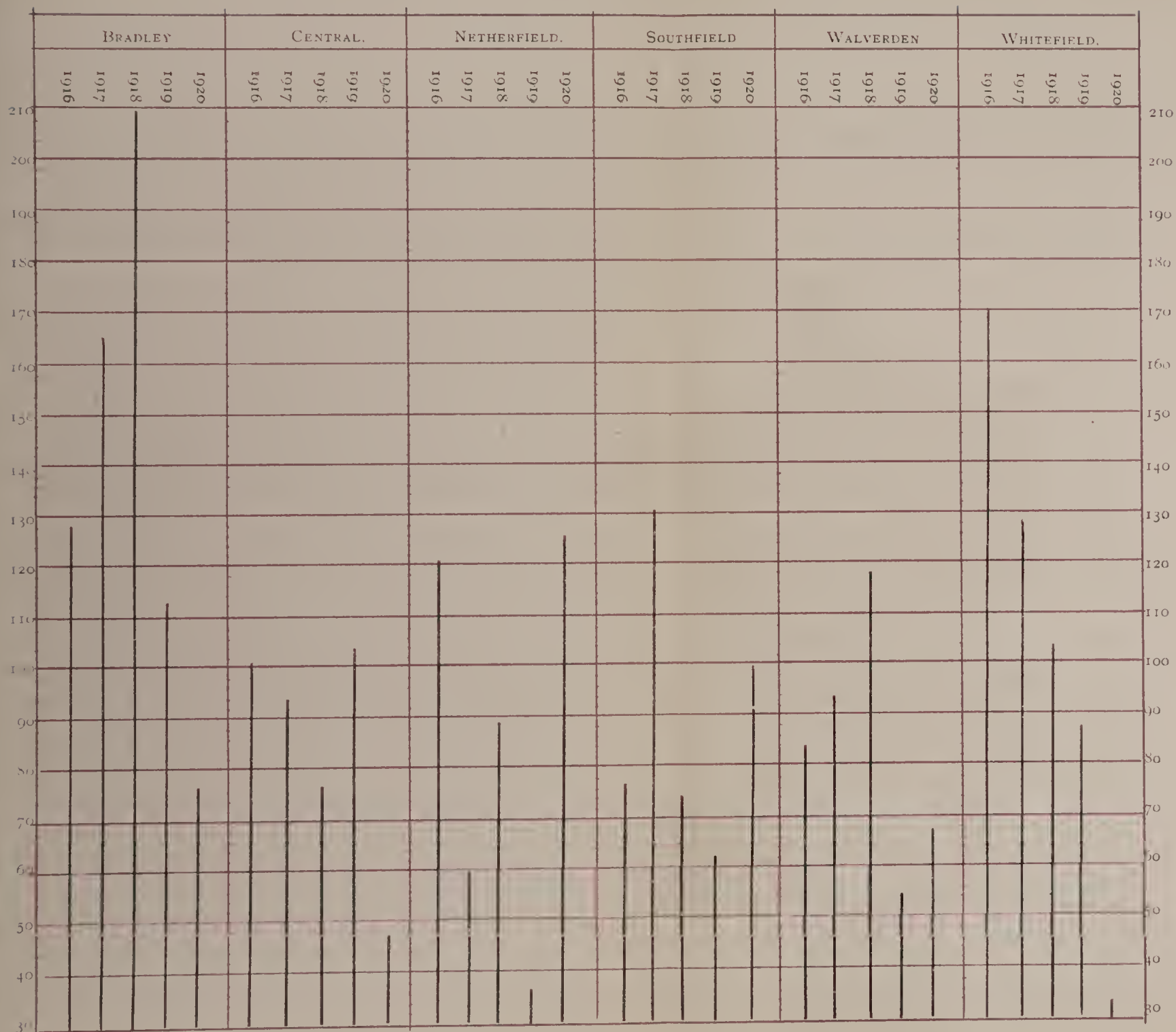
Year	In- fectious Diseases	Diarr- hoeal Diseases	Premature Births, Congenital Defects and Injury at Birth	Wasting Diseases	Chest Diseases	Other Causes	Total
1911	1	19	11	7	10	8	56
1912	10	4	19	4	14	12	63
1913	2	11	22	10	12	8	65
1914	13	6	33	3	13	18	86
1915	1	2	31	1	11	11	57
1916	5	4	25	5	15	13	67
1917	1	2	19	3	9	13	47
1918	1	3	13	5	13	8	43
1919	1	4	8	2	9	3	27
1920	2	4	21	8	11	8	54

The following table gives a comparison between Nelson and other East Lancashire towns, as regards Birth Rate and the various Death Rates for 1920.

Name of District	Estimated Population	Birth Rate	Death Rate	Epidemic Death Rate	Phthisis Death Rate	Infantile Mortality per 1000 Births
Nelson	43,095	16.0	9.5	0.3	0.62	77
Ramsbottom ..	15,283	17.9	12.1	0.52	0.85	94
Bacup	21,053	22.6	14.1	0.14	0.57	79
Colne	26,876	19.4	11.2	0.5	0.7	91
Heywood	27,226	22.6	15.2	0.55	0.95	115
Rawtenstall ..	28,470	20.8	13.3	0.56	0.49	89
Chorley	32,853	24.1	12.2	1.12	0.66	124
Darwen	39,182	21.5	13.0	0.22	0.58	93
Accrington ...	45,398	19.1	13.3	0.48	0.61	96
Burnley	105,030	23.9	14.1	0.65	0.72	129

A table is included at the end of the Report giving details of the deaths of infants under 1 year, and of the ages at which death occurred, from which you will notice that 21 deaths, or approximately

INFANTILE DEATH RATE IN WARDS—1916 to 1920.



40 per cent., occurred in the first week of life, and 30, or 55 per cent., in the first month. I would also draw your attention to the fact that out of the 21 deaths in the first week, 8 were under 1 day old and 7 over 1 day but under 2 days, this giving 15 deaths which had probably occurred before even the notification of the birth had been received.

POOR LAW RELIEF.

In normal trade conditions the amount of Poor Law Relief distributed bears favourable comparison to any of the surrounding districts.

HOSPITAL ACCOMMODATION.

The needs of the district are supplied by the combined Cottage Hospital and Orthopædic Hospital at Reedyford and by the accommodation still available at the Victoria Hospital, Burnley. The Poor Law Infirmary at Burnley is also available for necessitous cases.

SANITARY CIRCUMSTANCES OF THE DISTRICT.

WATER SUPPLY.

This is derived from two gathering grounds, one four miles distant on the east side of the town, known as Coldwell Reservoir, and one four miles distant on the west side of the town, known as Ogden Reservoirs.

Coldwell Reservoir.—Capacity, 80,000,000 gallons; filtration, 4 Bell's patent vertical pressure filters; nature of water, good, moderately hard.

Ogden Reservoirs.—Capacity, No. 1, 54,500,000 gallons; No. 3, 160,000,000 gallons; filtration, 12 Vertical Pressure filters; nature of water, good, soft.

Total storage capacity of reservoirs, including yield of streams, 170 days' supply.

Approximate daily consumption, 1,850,000 gallons.

Consumption per head of population in area supplied, $28\frac{1}{2}$ gallons.

Curtailement of supply during 1920—Nil.

RIVERS AND STREAMS.

The provisions of the Rivers Pollution Acts are administered by the Ribble Joint Committee.

DRAINAGE AND SEWERAGE.

The whole of the drainage of the district is carried out on the water carriage system, and all the sewage, with the exception of that from the small low-lying district of Lomeshaye, is delivered at the Sewage Works situated at Linedred by means of a high level gravitating sewer. The sewage from the Lomeshaye district is carried by a low level sewer, and is lifted into the high level sewer by means of automatic ejectors, situated at the works. The treatment is biological, consisting in the use of detritus tanks in duplicate fitted with mechanical screening and dredging apparatus, septic tanks, percolating filters, sedimentation tanks and strainers. The sludge from the septic tanks is pressed with lime, and that from the sedimentation tanks is air dried, and both are disposed of to farmers.

Dry weather flow	1,250,000 gallons per day.
Detritus tanks, capacity of each	29,000 gallons.
Septic tanks, total capacity.....	1,288,215 gallons.
Storm tanks, total capacity	375,000 gallons.
Percolating beds, total capacity	22,080 gallons.
Sedimentation tanks, total capacity...	1,095,166 gallons.
Strainers, total capacity	175,000 gallons.

CLOSET ACCOMMODATION.

No. of Privy Middens (in town)	Nil.
No. of Pail Closets	4
No. of Waste Water Closets	8386
No. of Fresh Water Closets	2291
No. of Waste Water Closets converted to Fresh Water Closets	5

SCAVENGING.

The whole of the scavenging and cleansing of the town is carried out by the Corporation staff, the ashpit and trade refuse being dealt with at the Destructor Works, and the street and gully refuse being taken direct to the tip, situate at Reedyford.

No. of Dry Ashpits (in the town), excluding middens	7,310
No. of Portable Receptacles for refuse	2,553

Mr. Nutter, the Cleansing Superintendent, has kindly supplied me with the following particulars of the work carried out under this heading during the year.

Weight of refuse destroyed	8,271 tons.
No. of loads of ashpit refuse destroyed	6,726
No. of loads of light refuse destroyed	1,629
No. of loads of market refuse destroyed	174
No. of tubs of garbage destroyed	5,745
No. of miles of streets swept	1,722
No. of gullies cleansed	33,841
No. of loads of gully refuse collected	1,455
No. of loads of water distributed on streets	242
No. of loads of grit distributed on streets	125
No. of loads of street sweepings collected	1,948
No. of loads of snow collected	55

SANITARY INSPECTION OF DISTRICT.

A summary of the work carried out under this heading is as follows:—

No. of complaints of nuisances received and investigated	73
„ premises in general, inspected	1461
„ „ „ re-inspected	109
„ „ „ visited	1106
„ inspections—stables	145
„ „ licensed premises	19
„ „ lodging houses	37
„ „ slaughter-houses	520
„ „ offensive trades	103
„ „ bakehouses	118
„ „ workshops	32
„ „ factories	29
„ „ dairies	2
„ visits—infectious diseases	267
„ structural defects found	77
„ lack of cleanliness found	13
„ offensive accumulations found	5
„ defective waste-pipes found	22
„ defective water closets	25
„ defective waste water closets found	37
„ defective drains found	35
„ defective ashpits found	25
„ verbal notices given	77
„ informal notices sent	79
„ informal and verbal notices complied with	139
„ legal notices sent	17
„ legal notices complied with	17
„ legal proceedings	0
„ applications received for opening drains, &c.	453
„ drains opened by Corporation workmen	107
„ water and waste water closets opened by Corporation workmen	411

PREMISES AND OCCUPATIONS WHICH CAN BE CONTROLLED BY BYELAWS OR REGULATIONS.

FABRICES AND WORKSHOPS.

Returns under the Factory and Workshops Act, 1901.

1. Inspection of Factories, Workshops and Workplaces.

Premises	No. of inspections.	No. of written notices.	No. of prosecutions.
Factories (including Factory Laundries)	29	5	0
Workshops (including Workshop Laundries)	150	1	0
Workshops other than outworkers' premises	1	0	0
Total	180	6	0

2. Defects found in Factories, Workshops & Workplaces.

Particulars.	Number of Defects :			Number of Prosecutions
	Found	Remedied	Referred to H.M.I.	
Nuisances under Public Health Acts :				
Want of Cleanliness.....	3	3	...	...
„ „ Ventilation.....	...	...	...	...
Overcrowding	...	...	...	...
Want of drainage of floors	...	...	...	...
Other Nuisances	7	7	...	...
Sanitary Accommodation	Insufficient	1	1	...
	Unsuitable or defective.....	5	4	...
	Not separate for sexes	...	...	...
Offences under the Factory and Workshops Acts :				
Illegal occupation of underground Bakehouse.....	...	...	...	...
Breach of special sanitary requirements for bakehouses..	12	12	...	...
Other offences	...	...	...	...
Total.....	28	27	...	...

3. Home Work.

Nature of Work.	Outworkers' Lists. Section 107.				
	Lists received from Employers.				
	Twice yearly.			Once yearly.	
	Lists	Outworkers		Lists	Outworkers
		contracts	workmen		
Making Wearing Apparel	4	6	2	...	...

4. Registered Workshops.

(Workshops on the Register at the end of the year).

Trades.	Ordinary	Domestic	Men's	Total
Bakehouses	38	40	6	84
Tailors	5	3	9	17
Dressmakers	13	14	...	27
Milliners.....	16	11	...	27
Shoe and Clog Makers.....	5	1	22	28
General	4	11	16	31
Totals	81	80	53	214

5. OTHER MATTERS.

CLASS	Number
Failure to affix abstract notified to H.M. Inspector.....	None
Matters notified by H.M. Inspector	7
Reports of action sent to H.M. Inspector	None
Other	None
Underground Bakehouses in use at end of year	1

OFFENSIVE TRADES.

No. of Offensive trades in Borough.	Total	3
Tripe Boilers		1
Gut Scrapers		2
No. of complaints of nuisances arising from same		0
,, inspections		103
,, defects or nuisances found		0

COMMON LODGING HOUSES.

No. of Common Lodging Houses in Borough	1
,, inspections	37
,, defects or nuisances found	2
Accommodation available (beds)	138

CANAL BOATS ACTS.

The Council are exempt from the administration of the Canal Boats Acts owing to the short length of canal within the boundaries.

DAIRIES, COWSHEDS AND MILKSHOPS.

These are inspected by your Veterinary Inspector, whose report is included under the heading of "Food-Milk Supply."

No. of Cowkeepers on Register	36
,, Dairymen or Milk Purveyors on Register	48
,, Inspections	38
Condition of Premises	Fair

SLAUGHTER HOUSES.

No. of Private Slaughter Houses, December, 1920	13
No. of Private Slaughter Houses, use discontinued during year	1
No. of inspections during year	520
General Condition of premises	Poor

STATEMENT OF SLAUGHTER-HOUSES.

	In 1914.	In January 1920.	In December 1920.
Registered	2	2	1
Licensed	12	12	12

Although the question of Public Abbatoirs has received consideration during the year, we are still no nearer the provision of one of the most important needs of the Borough.

SMOKE OBSERVATIONS.

Number of Smoke Observations taken during the year	22
Number of chimneys concerned	18
Time limit per hour	10 minutes.
No. of times limit has been exceeded	4
,, chimneys concerned	3
Legal proceedings	Nil.

SCHOOLS.

The sanitary condition of the Schools in the Borough is on the whole good, and all are supplied with Town's water. It has only been necessary to close one school during the year, an outbreak of German Measles and Scarlet Fever necessitating the closure of the St. John's Infant School just prior to the Christmas Holidays.

FOOD.

MILK SUPPLY.

The milk supply of the town is derived from farms in the immediate locality. The farms situated within the Borough are visited by the Veterinary Inspector, and all the cattle are inspected. I append his report for 1920, which reads as follows:—

41, Carr Road,

16th March, 1921.

Report of Veterinary Inspector on the Farm Buildings and Cattle kept in the Borough of Nelson in the year 1921.

I have been round and inspected all the cowsheds within the Borough and find the cattle therein in good health, but not as fleshy as usual, no doubt due to the bad hay harvest.

A few of the farms are changing tenancy, and some have few cattle.

All told the number of cattle is 650, of which 532 are in milk, and 21 of the latter have got one deficient teat each. However, not one deficient teat is giving milk, or inflamed, or suspicious of tubercle.

The premises are mostly well drained and ventilated, and cattle in the majority of cases clean.

Some of the shippens, owing to bad construction, make it impossible to keep cows clean.

There has been no epidemic among either horses, cattle, sheep or pigs, for which we may thank the heavy rainfall.

The number of cattle that might be suspected of having tuberculosis, in my opinion, still continues to decrease.

(Signed) JOHN BARKER, M.R.C.V.S.

It is intended during the present year to make a series of examinations of the milk supply of the Borough, with a view to determining the presence or otherwise of the tubercle bacilli in the milk, the necessary tests to be carried out at the new Public Health Laboratory.

MILK (MOTHERS AND CHILDREN) ORDER, 1919.

The following is a summary of the action that has been taken during the past 12 months.

Number in receipt of Free Milk at 1st January, 1920	47
„ in receipt of Free Milk at 31st December, 1920	38
„ in receipt of Free Milk during year	93
„ having received 1 pint per day	54
„ „ „ 1½ pints per day	2
„ „ „ 2 pints per day	35
„ „ „ 2½ pints per day	2
„ „ „ milk for 12 months	12
„ „ „ „ 11 „	2
„ „ „ „ 10 „	2
„ „ „ „ 9 „	7
„ „ „ „ 8 „	1
„ „ „ „ 7 „	4
„ „ „ „ 6 „	12
„ „ „ „ 5 „	3
„ „ „ „ 4 „	4
„ „ „ „ 3 „	22
„ „ „ „ 2 „	9
„ „ „ „ 1 „	11
„ „ „ „ under 1 month	5...
Daily supply of milk at 1st January, 1920	71 pints
Daily supply of milk at 31st December, 1920	54 pints
Number of 1lb. packets of Glaxo supplied at net cost price ...	700

MEAT AND OTHER FOODS.

As there are 13 private slaughter houses in the Borough, it is obvious that no complete examination of meat at the time of slaughter can take place. The slaughter houses are visited frequently, and so far as possible, supervision is carried out. No seizure of

unsound meat has taken place during the year, but the following articles of food have been submitted for inspection and condemned as being unfit for human consumption.

3 carcasses of cows (tubercular)
 1 carcase of bullock (tubercular)
 1 carcase of boar
 1 carcase of sheep
 86 lbs. chilled liver
 1 boiled ham
 6 chickens
 474 rabbits
 116½ lbs. salmon
 107 lbs. cod
 495 lbs. hake
 42 lbs. gurnard
 56 lbs. Scotch finnon
 28 lbs. Finnon haddock
 600 eggs

TINNED GOODS.

2 tins tongue
 1 tin corned beef
 3 tins mutton
 2 tins beef
 6 tins rabbit
 3 tins lobster
 1 tin salmon
 1 tin pilchards
 7 tins milk
 73 tins Nestle's milk
 3 tins peaches
 2 tins apricots
 2 tins apples
 1 tin pears
 1 tin pineapple

FOOD AND DRUGS ACT.

No. of samples submitted for analysis (milk)	23
Other articles	None
„ samples found genuine	22
„ samples found deficient	1

In the sample found deficient, the analysis revealed a deficiency in milk fat of 13 per cent. of the limit of 3 per cent. fixed by the sale of milk regulations. A sample of milk had, however, been taken the same morning from this vendor at Barrowford by the Police

Authorities, and this was also found deficient. As the farm premises were not situate in Nelson, it was decided to leave it to the Police Authorities to follow up the case, as a result of which the vendors were fined £5 including costs.

INFECTIOUS DISEASES.

Total number of Infectious Diseases notified during year ...	275
Total number of Infectious Diseases notified in 1919	446
(Measles and German Measles were taken off the list of notifiable diseases on the 1st January, 1920).	
Average number of notifications for the last 10 years	457

Notable increases in number of notifications	1919	1920
Scarlet Fever	65	128
Diphtheria	15	54
Notable decreases		
Pneumonia	65	12
Malaria	11	1
Pulmonary Tuberculosis	32	22

The following tables show the number of cases of each notifiable disease for the past ten years (except where the notification has been compulsory for less than that period) and the Monthly and Ward Analysis during 1920

Year	Smallpox	Scarlet Fever	Enteric Fever	Puerperal Fev.	Diphtheria	Membraneous Croup	Erysipelas	Measles	German Meas.	Pulmonary Tuberculosis	Tuberculosis (other forms)	Ophthalmia Neonatorum	Ac. P'l'my'litis	Cerebro-spinal Meningitis	Pneumonia	Malaria	Dysentery	Total
1911	...	28	6	1	17	...	31	...		...	...	...		.....	...	.	...	83
1912	...	30	6	...	9	...	17	...	.	44	...	1	1	.....	.	...	...	108
1913	...	42	3	2	18	...	21	...		37	32	2	1	.....		...	...	158
1914	...	49	4	...	22	...	15	...		40	28	4		.....	...	...	...	162
1915	...	417	1	..	84	...	23	...		57	25	5	...	.....		...	...	612
1916	...	85	4	.	52	...	13	1033	65	38	12	5	...	.....			...	1307
1917		46	1		46	1	12	127	2	36	18	...		.....		...	...	289
1918	...	28	...	...	25	2	13	1020	.	28	14	3	..	.....			...	1133
1919	...	65	3	1	15	...	22	202	8	32	15	3	1	.....	65	11	3	446
1920		128	1	1	54	1	21	...		22	23	11	...	.....	12	1		275
Av. for 10 years.	..	91.8	2.9	.5	34.2	.4	18.8	...		...	...	...	...	...	...	...	...	457.3

MONTHLY INCIDENCE OF NOTIFIED DISEASES.

Disease	Jan.	Feb	Mar	Apl	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
Smallpox													
Cholera													
Plague													
Diphtheria and Memb Croup	9	5	12	4	3	6	2	2	1	....	2	9	55
Erysipelas	2	4	4	2	1	....	2	4	....	....	1	1	21
Scarlet Fever	11	12	17	10	8	4	3	4	9	12	20	18	128
Typhus Fever													
Enteric Fever			1										1
Relaps ng Fever ..													
Continued Fever ..													
Puerperal Fever ..		1											1
Cerebro-spinal Meningitis													
Poliomyelitis.....													
Ophthalmia Neonatorum	1	....			1	....	1	2	....	3	2	1	11
Pulmonary Tuberculosis	1	2	1	1	1	1	1	2	3	2	4	3	22
Other forms of Tuberculosis	2	1	2	2	....	7	....	1	....	2	2	4	23
Malaria		1											1
Dysentery													
Pneumonia	1	1	1	1	1	4	1	....		1	....	1	12
Totals	27	27	38	20	15	22	10	15	13	20	31	37	275

WARD ANALYSIS OF NOTIFICATIONS.

Disease.	Bradley	Central	Netherfield	Southfield	Walverden	Whitefield	Total.
Smallpox	...	...	...	...	...	...	...
Scarlet Fever	22	7	24	17	43	15	128
Diphtheria and Memb. Croup .	7	5	6	5	21	11	55
Typhus Fever	...	...	...	...	...	...	...
Enteric Fever	...	1	...	...	...	...	1
Continued Fever	...	...	...	...	...	...	...
Relapsing Fever	...	...	...	...	...	...	...
Puerperal Fever	...	...	...	1	...	...	1
Erysipelas	3	2	3	...	10	3	21
Pulmonary Tuberculosis	2	4	5	4	4	3	22
Non-Pulmonary Tuberculosis	3	5	5	2	5	3	23
Ophthalmia Neonatorum	2	1	3	2	2	1	11
Acute Poliomyelitis	...	...	...	...	...	...	...
Cerebro-Spinal Fever	...	...	...	...	...	...	...
Pneumonia	...	2	2	1	2	5	12
Malaria	...	...	1	...	...	...	1
Dysentery	...	...	...	...	...	...	...
Totals	39	27	49	32	87	41	275

SCARLET FEVER.

Cases notified	128
Number of Deaths	1
Case mortality per cent.	.78
Cases removed to Hospital	12
Number of cases under school age	11
Number of cases over school age	24
Number of cases attending school	93
Number of houses having 3 cases	1
Number of houses having 2 cases	13
Number of houses having 1 case	99
} 113 houses affected.	

DIPHTHERIA AND MEMBRANEOUS GROUP.

Cases notified	55
Number of Deaths	4
Case mortality per cent.	7.6
Cases removed to Hospital	Nil.
No. of cases in which Anti-Diphtheritic serum was injected .	50
,, bulbs (2,000 units each) supplied free	104
,, swabs taken for diagnostic purposes	33
No. positive	14
No. negative	19
No. of cases under school age	6
,, cases over school age	6
,, cases attending school	43
,, houses having 2 cases	2
,, ,, ,, 1 case	51
} 53 houses affected.	

SCHOOLS AFFECTED (SCARLET FEVER AND DIPHTHERIA).

	Bradley	Bradshaw Street	Walverden	Whitefield	Lomeshaye	Leeds Road	St. John's	St. Paul's	Carr Road	St. Joseph's	St. George's	Holy Saviour's	Secondary	Outside Borough	TOTAL
Scarlet Fever .	8	28	10	3	4	7	14	3	4	1	—	3	6	2	93
Diphtheria	3	12	3	4	4	3	6	2	1	—	1	1	2	1	43

MEASLES AND GERMAN MEASLES.

No record of number of cases is now available.

No. of Deaths (Measles)	1
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In the closing months of the year there appeared to be a prevalence of German Measles, coincident with an increase in the number of Scarlet Fever cases reported, and it was found necessary to close the Infant Department of one school for 10 days prior to the Christmas Holiday for this reason.

ENTERIC FEVER.

No. of cases notified	1
Number of Deaths	1
Case mortality per cent.	100

ERYSIPELAS.

No. of cases notified	21
No. of Deaths	Nil.

PUERPERAL FEVER.

No. of cases notified	1
No. of Deaths	1

OPHTHALMIA NEONATORUM.

No. of cases notified	11
, visits paid to patients by Health Visitors	283
Result of treatment:—	
Eyesight unimpaired	9
One eye scarred	2

INFLUENZA.

No. of Deaths	1
Decrease from last year	50
Total number of cases of Pneumonia notified	12
Primary Pneumonia	11
Lobar Pneumonia	1
Number of Deaths from Pneumonia (all forms).....	23

No recurrence of the Influenza Epidemic in the form it took last year has occurred.

WHOOPING COUGH.

No record of the number of cases is available.

No. of Deaths	2
---------------------	---

DIARRHŒA AND ENTERITIS.

No. of Deaths (under 2 years)	4
Rate per 1,000 of population	.09

MALARIA AND DYSENTERY.

No. of cases of Malaria notified	1
,, cases of Dysentery notified	Nil.

TUBERCULOSIS.

No. of cases of Pulmonary Tuberculosis notified	22
,, cases of other forms of Tuberculosis notified	23
Notifications from Sanatoria, Admitted	11
,, ,, ,, Discharged	12
,, ,, School Medical Officer (included above)	4
,, ,, Tuberculosis Officer (included above) ...	4
,, ,, Army Authorities (included above) ,,,...	2

The particulars of the ages and occupations of the cases are as under:—

Ages	1-5	5-15	15-25	25-45	45-65	Over 65.
Pulmonary	—	—	8	11	3	—
Other forms	1	12	5	5	—	—

OCCUPATIONS.

	Pulmonary.	Other Forms.
Weavers	12	6
Soldiers	2	—
Clothlookers	1	—
Plumber	1	—
Carter	—	1
Labourers	—	2
Dressmaker	1	—
School	—	9
Home Duties	3	1
No occupations	2	4

No. of Deaths from Pulmonary Tuberculosis in 1920	27
„ Deaths from other Tubercular diseases	5
Phthisis Death Rate for 1920	.62

Dr. MacPhee, the County Council Tuberculosis Officer for No. 9 Area, in which Nelson is situated, has kindly supplied me with the following particulars of the work done by him at the Tuberculosis Dispensary:—

The County Council's Tuberculosis Dispensary is situated at 64, Carr Road, Nelson. It is therefore conveniently placed for the Borough and is open for Insured and Non-Insured persons alike.

The County Dispensary Tuberculosis Officer is in attendance twice a week, on Tuesday and Friday afternoons at 2 p.m.

Notifications of persons suffering from Tuberculosis in the Borough of Nelson:—

	Pulmonary.	Non-Pulmonary.
Form A.	22	20
Form B.	—	4
Form C.	12	—
Form D.	13	—

Number of New Patients examined at the Dispensary	72
Number examined at their own homes	13
Number of examinations of old cases	462
Number recommended for Home treatment (Domiliary) ...	89
Number recommended for treatment in Sanatoria	14
Number recommended for treatment in General Hospitals .	13

As mentioned in my report for 1919, the Nursing Staff was augmented and therefore during 1920 much more attention was devoted by the Tuberculosis Nurse to individual cases receiving Home treatment.

In Surgical cases, wounds were dressed and the hygiene of the patient and the home was personally supervised. Greater efforts were made to isolate, as far as possible, all infectious cases under Domiciliary treatment, and Bedsteads and Mattresses were lent in several cases, in order the better to effect this.

Bed rests, Air cushions and other Nursing Utensils, were also lent from the Dispensary in special cases.

There is no doubt effectiveness in the control of Tuberculosis, in so far as the home is concerned, is very largely dependent on the efforts and devotion of the Nurse and Health Visitor. With that in view, the work of the Nursing Staff has been considerably developed during 1920.

I herewith append a few details of the work of Nurse Ward:—

Number of primary visits to patients	55
Number of " following up " visits	723
Total	778
Number of visits where special nursing was undertaken	172

Isolation of the 55 primary cases visited. 33 were Pulmonary, that is the lungs were affected, and the following conditions were found at the initial visit.

Number isolated (separate bedrooms)	16
Number not isolated (occupying same bed with others)	12
Number occupying separate bed, but not separate room	5

Of the 17 cases not completely isolated, isolation was effected in 9 cases. Of the remainder 5 were not considered infectious; 2 could not be isolated on account of there being no accommodation, and in 1 case partial isolation was effected.

All patients with sputum are continually being urged and encouraged to make use of the paper handkerchiefs and sputum utensils which are supplied from the Dispensary.

Contacts.

Every endeavour is made to examine contacts of infectious cases where it is considered desirable.

(Signed) B. MACPHEE,

BACTERIOLOGICAL EXAMINATIONS.

1. No. of Specimens examined under the arrangement between your Council and the Clinical Research Association—47.

Swabs for Diphtheria	Positive 14	Negative 19	Total 33
Sputum for T.B.	„ 4	„ 8	„ 12
Blood for Typhoid	„ 1	„ 1	„ 2

2. No. of Specimens examined at the Public Health Office—16.

Swabs for Diphtheria	Positive —	Negative 1	Total 1
Sputum for T.B.	„ 1	„ 3	„ 4
Blood for Paratyphoid	„ —	„ 1	„ 1
Blood for Malaria	„ —	„ 1	„ 1
Pus for Gonococcus	„ 1	„ —	„ 1
Pus for Ophthalmia	„ 1	„ —	„ 1
Hair for Ringworm	„ 4	„ 1	„ 5
Blood for General Examination			„ 2

DISINFECTION.

After convalescence disinfection of the rooms and bedding is carried out, on request in cases of Measles, Erysipelas, Non-Pulmonary Tuberculosis, Pneumonia, Malaria and Dysentery, and compulsorily in the other cases. Clothing and Bedding are treated through a Steam Disinfector, Books, Boots, &c. are exposed to Formaldehyde Gas in a closed chamber, and the rooms are sprayed with Formalin and then fumigated with Formaldehyde Gas.

No. of Rooms fumigated and sprayed	199
„ Articles of Bedding Disinfected	1062
„ Articles of Wearing Apparel Disinfected	281
„ Miscellaneous Articles disinfected	71
„ Books, Boots, &c. disinfected (Formaldehyde)	47
„ Schools fumigated and sprayed	1

MATERNITY AND CHILD WELFARE.

No. of Health Visitors	2
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No. of Notified Births:—

Alive	Males 372	Females 333	Total 705
Still-born	„ 23	„ 16	„ 39
			Total 744

Percentage of Still-born births	5.2%
No. of infants visited during the year	745
„ visits made	4587
Average number of visits per infant	6
No. of children visited (1—5 years)	396
„ visits made	1333

Average number of visits per child	3.3
No. of Ante-natal mothers visited	165
,, visits made	328
Average number of visits per mother	2
No. of ineffectual calls	839
,, special visits made, for supply of milk	141
,, special visits made for assistance in Ophthalmia cases	283
,, special visits made for nursing assistance in other cases	114
,, confinements attended by medical practitioners	695
,, confinements attended by midwives and other women	41
Percentage attended by medical practitioners	94%
Number of illegitimate children notified :—	
Males 16.	Females 14.
	Total 30.
Percentage of illegitimates to total births notified	4%
Cases of twin births notified	8
Percentage of twin births	1.0%

OCCUPATION OF MOTHERS WITHIN 9 MONTHS OF CONFINEMENT.

Cotton Operatives	334 or 45.4%
Other Occupations	37 or 5.0%
Housewives	365 or 49.6%

PERIOD OF TIME BETWEEN WORKING AND CONFINEMENT.

Under one month	35	or	9.4%
One month	50	or	13.5%
Two months	76	or	20.5%
Three months	71	or	19.2%
Four months	61	or	16.4%
Five months	32	or	8.6%
Six months	26	or	7.1%
Seven months	11	or	2.9%
Eight months	9	or	2.4%

STILL-BIRTHS.

Occupation of Mother	Time between working and confinement	Stage of Development of child in mths.	Other Children.			Attended by doctor or midwife	Remarks.
			Alive	Dead	Still-born		
Weaver (Twins)	3 mths.	7	..	..	..	doctor	Mother had eclampsia
Weaver	5 weeks	7	..	I	2	..	Cause not known
..	2 mths.	7	..	..	..	..	Mother had severe fall
..	1 week	7	..	..	..	..	Cause not known
..	6 weeks	8	..	..	..	..	Mother ailing beforehand
..	2 mths.	7	3	I	I	..	Mother had Influenza
..	2½ mths	8	..	..	..	..	Mother had shock
..	3 mths.	9	..	..	..	..	Mother had shock
..	2 mths.	9	..	..	..	..	Delayed labour
..	7 mths.	8	..	..	..	m'wife	Cause not known
..	2½ mths	9	..	..	..	doctor	Mother had shock
..	3 mths.	8	..	..	..	..	Delicate Mother
Charwoman	2 days	7	..	..	..	..	Heavy work & some trouble
Home (Twins)	.....	9	..	..	..	..	Cause not known
..	.....	7	..	I	I	..	Cause not known
..	.....	7	3	I	..	..	Mother had shock
..	.....	7	2	I	..	..	Delicate mother
..	.....	7	II	..	..	..	Mother had kidney trouble
..	.....	7	..	..	..	..	Cause not known
..	.....	7	..	..	..	..	Cause not known
..	.....	9	I	..	I	..	Cause not known
..	.....	9	2	..	..	..	Cause not known
..	.....	9	2	..	..	..	Mother had Rheumatic F.
..	.....	9	10	4	2	..	Cause not known
..	.....	9	..	I	I	..	Cause not known

DIED DURING BIRTH.

Occupation of Mother.	Time between working and confinement	Stage of D'velop-ment of child in months	Other Children.			Attended by doctor or midwife	Remarks
			Alive	Dead	Still-born		
Weaver	3 mths.	9	.....	.....	.....	doctor	Malpresentation
"	6 mths.	9	.....	.....	.....	"	Malpresentation
"	6 mths.	9	.....	.....	.....	"	Hydrocephalus
Winder	2 weeks	9	.....	.....	.....	"	Malpresentation
"	3 mths.	9	.....	.....	.....	"	Contracted Pelvis
Home	.....	7	.....	.....	.....	"	Malpresentation
"	.....	9	.....	.....	.....	"	Malpresentation
"	.....	9	.....	.....	.....	"	Malpresentation
"	.....	9	3	1	.....	"	Obstructed Labour
"	.....	9	.....	.....	.....	"	Injury at Birth
"	.....	9	4	.....	1	"	Placenta Prævia
"	.....	9	.....	.....	.....	"	Cæsarian Section

INFANT DEATHS.

No. of children born during year who died during same ...	40
Total number of deaths of infants under 1 year	54
No. of Deaths from Infectious disease	2
" " " Diarrhoeal diseases	4
" " " Wasting diseases	8
" " " Chest diseases	11
" " " Premature birth congenital defects or injury at birth	21
" " " other causes	8

An analysis of the occupation of the mother in the 21 cases due to prematurity, congenital defects and injury at birth, is shewn in the following table.

Cause of Death.		Occupation of Mother	time of ceasing work before confinement
Prematurity		Weaver	2 months
"		"	2 months.
"		Beamer	2 months
"		Weaver	10 weeks
"		"	4 weeks
"		"	1 week
" (Twins)		Home duties	.....
"		"	
"		"	
Congenital defects		Weaver	5 months
" "		"	2 months
" "		"	2 weeks
" "		Winder	1 day
" "		Book-keeper	4 months
" "		Home duties	.....
" "		"	
" "		"	
" "		"	
Injury at Birth		Weaver	3 months
" "		Home Duties	.....

FIRST METHODS OF FEEDING INFANTS BORN DURING YEAR.

Breast.	Bottle.	Breast and Bottle.	Breast and Spoon.	Spoon.	Not Fed.
626	48	7	2	12	10

Continuous records have been obtained of the methods of feeding of 316 infants born during the period March 31st, 1919 to April 1st, 1920, with the following results.

Food Used	First fort- night	2-6 weeks	6-13 weeks	3-6 m'nths	After 6 m'nths
Breast	281	224	174	152	138
Cow's Milk.....	26	68	97	109	113
Breast and Cow's Milk ..	6	8	11	11	9
Breast and Glaxo	2	2	1	2	2
Breast and Nestle's Milk ..	...	...	1	1	1
Cow's Milk and Glaxo.....	...	...	1	1	2
Cow's Milk & Patent Barley	...	...	1	2	3
Cow's Milk and Bread.....	...	...	...	2	8
Glaxo	1	10	18	20	23
Nestle's Milk	...	2	3	4	3
Cow and Gate Food	...	...	...	1	2
Allenbury's Food	...	1	5	4	1
Savory & Moore's Food ..	...	1	2	2	3
Mellin's Food	...	...	...	1	2
Neave's Food.....	...	...	2	4	4
Allinson's Food	...	...	...	...	2

In certain cases enquiries have been made as to the reasons for not feeding the babies on breast milk or not continuing with same after having commenced, and the following explanations were offered:—

Mother's milk gradually decreased until there was none or not sufficient	77
Owing to mother returning to work	14
Retracted nipples	8
Mastitis	3
Discontinued on Doctor's advice	26
Discontinued on miscellaneous advice	14
Mother did not persevere	10

BABY WEEK.

No Baby Week was held during the year, but on October 27th a meeting of mothers and babies was arranged in the Council Chamber, at which the prizes awarded by Mr. Councillor J. H. S. Aitken to babies born in Baby Week, 1919, who attained the age of 12 months were presented. There had been thirteen births in the 1919 Baby Week, 12 alive, 1 stillborn, and of these 11 babies were entitled to receive prizes.

INFANT WELFARE CENTRE.

Position of Centre 9, Carr Road

Day of Meeting Wednesday Afternoon

Time of Meeting 2-30 p.m.

	1919.	1920.
Number of meetings held	45	47
Total number of attending infants	183	304
,, ,, ,, ,, children	132	141
,, ,, ,, ,, expectant		
mothers ...	37	46
	—— 352	—— 491

Total number of attendances .

Infants	609	1051
Children	429	404
Expectant Mothers	50	79
	—— 1088	—— 1534

Average attendance per week.

Infants	13.53	22.36
Children	9.53	8.5
Expectant Mothers	1.1	1.7
	—— 24.2	—— 32.6

Average number of attendances per

Infant	3.5	3.4
,, Child	3.25	3.
,, Mother	1.3	1.7

DETAIL OF ATTENDANCES OF INFANTS.

Infants.		Children.	
One Attendance	116	One Attendance	65
Two Attendances	63	Two Attendances	34
Three ,, ...	33	Three ,, ...	13
Four ,, ...	26	Four ,, ...	8
Five ,, ...	9	Five ,, ...	3
Six ,, ...	13	Six ,, ...	1
Seven ,, ...	9	Seven ,, ...	4
Eight ,, ...	6	Eight ,, ...	2
Nine ,, ...	5	Ten ,, ...	3
Ten ,, ...	4	Eleven ,, ...	1
Eleven ...,, ...	6	Twelve ,, ...	3
Twelve ,, ...	2	Thirteen ,, ...	2
Thirteen ,, ...	2	Fourteen ,, ...	1
Fourteen ,, ...	1	Eighteen ,, ...	1
Fifteen ,, ...	2		
Sixteen ,, ...	3		
Nineteen ,, ...	2		
Twenty ,, ...	1		
Twenty-one ,,, ...	1		

A summary of the attendances of Infants and Children from the various wards of the Borough gives the following figures.

Bradley	Central	Netherfield	Southfield	Walverden	Whitefield
50	57	94	82	107	42
Out of Borough—13.					

No. of Infants for whom consultations were requested	215
No. of Children for whom consultations were requested	106
Total consultations	321

No. of consultations per Infant and Child.

	Infants.	Children.
No. requiring one consultation	101	52
„ „ two consultations	24	17
„ „ three „	6	2
„ „ four „	4	1
„ „ five „	3	2
„ „ six „	1	0
„ „ eleven „	1	0

MATERNITY HOME, FERN LEA.

The Maternity Home was open from the beginning of the year to April 8th, on which day it was closed in order to commence the alterations and additions decided upon by your Committee.

The number of applications, admissions and discharges for the months whilst open are as follows:—

Month	No. of Applications	No. Admitted	No. discharged	No. of Births.
January	5	7	6	6
Febr'ary	12	8	5	9
March	14	6	10	6
April	11	Closed	2	...
May	4	„	...	...
June	4	„	...	...
July	5	„	...	...
August	2	„	...	...

Of the 21 births occurring in the institution, 2 were still-born, 1 died 30 hours old and 1 died at 2 days old.

HOUSING.

The majority of the houses in the Borough are substantially built, and are of the through type with separate yard accommodation to each house. There is no slum area (as understood by the

term) in the district and there are only 29 back to back houses, and there are no houses “ let in lodgings.”

A summary of the number of rooms in the houses, excluding bathrooms, sculleries, &c., is as follows:—

No. of houses of one room	.01%
„ „ with two rooms	1.1%
„ „ „ three rooms	2.0%
„ „ „ four rooms	57.0%
„ „ „ five rooms	30.0%
„ „ „ over five rooms	10.0%
„ „ containing baths	20.0%

The defects most commonly found are of the minor type and an informal intimation is generally sufficient to have any necessary work carried out. The shortage of houses which naturally follows the complete suspension of building operations that occurred during the war is now being met by your Council under the Housing Scheme, of which the following is a summary.

No. of Schemes submitted	No. of Lay outs.		No. of Houses included in House Plans.		No. of Houses.	
	Sub-mitted	Approv-ed	Sub-mitted.	Approv-ed	On which work has c'mmenced	Completed
4	4	4	611	171	145	13

HOUSING CONDITIONS.—STATISTICS.
YEAR ENDED 31ST DECEMBER. 1920.

1. GENERAL.

1. Estimated population	43,095
2. General Death Rate	9.5
3. Death Rate (Phthisis)	.62
4. Infantile Mortality	77
5. Number of Dwelling-houses of all classes (approx.) ...	10,000
6. Percentage of working-class dwelling-houses	90%
7. Number of new working-class houses erected	13

2. UNFIT DWELLING-HOUSES.

(i) Inspection.	
1. Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts	Nil.
2. Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Regulations, 1910	Nil.

3.	Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	Nil.
4.	Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation	138
(ii)	Remedy of Defects without service of formal notices.	
	Number of defective dwelling-houses rendered fit in consequence of informal action by the local Authority or their officers	114
(iii)	Action under Statutory Powers.	
A.	Proceedings under section 28 of the Housing Town Planning &c. Act, 1919.	
1.	Number of dwelling-houses in respect of which notices were served requiring repairs	Nil.
2.	Number of dwelling-houses which were rendered fit	
	(a) by owners	Nil.
	(b) by Local Authority in default of owners	Nil.
3.	Number of dwelling-houses in respect of which closing orders became operative in pursuance of declarations by owners of intention to close	Nil.
B.	Proceeding under Public Health Acts.	
1.	Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	24
2.	Number of houses in which defects were remedied	
	(a) by owners	24
	(b) by Local Authority in default of owners.....	17
C.	Proceedings under sections 17 and 18 of the Housing, Town Planning, &c. Act, 1909.	
1.	Number of representations made with a view to the making of Closing Orders	Nil.
2.	Number of dwelling-houses in respect of which Closing Orders were made	Nil.
3.	Number of dwelling houses in respect of which Closing Orders were determined	Nil.
4.	Number of dwelling-houses in respect of which Demolition Orders were made	Nil.
5.	Number of dwelling-houses demolished	Nil.

3. UNHEALTHY AREAS.—NIL.

4. No. of houses not complying with the building bye-laws erected with consent of Local Authority under Section 25 of the Housing and Town Planning Act, 1919 Nil.
5. No separate staff is employed, the inspections being carried out in the ordinary routine work of the Sanitary Inspectors.

THE HOUSING ACTS, 1890 TO 1919.

- Has your Authority determined the procedure to be adopted for the inspection of your district as required by Article i. of the Regulations of 2nd September, 1910? Yes.
- Has your Authority prepared, as required by Article I. (3) a list of dwelling-houses, the “ early inspection of which is, in the opinion of the M. O. H., desirable ”? —
- Has your Authority designated an officer to undertake the special inspection of houses to keep the records stipulated by articles (II.) and (III.)? Yes.
- What officer has been so designated? I. of N.
- Have the necessary books, forms, &c., for keeping the required records been obtained? Yes.
- Are these up to date? No.

Action taken in 1920 under the Housing Acts:—

- (a) No. of Dwelling-houses specially inspected during 1920 under Sec. 17 of the Act of 1909, i.e., with a view to ascertaining whether any dwelling-houses are unfit for human habitation? Nil.
- Have the particulars of these inspections, as specified in Article II. (1) to (8), and Article III. (1) to (8), of the Housing (Inspection of District) Regulations, 1910, been fully recorded? Nil.
- (b) No. of Dwelling-houses inspected under (a) which are considered unfit for human habitation? Nil.
- (c) No. of Representations to Authority with a view to making Closing Orders? Nil.
- (d) No. of Closing Orders made? Nil.
- (e) No. of Dwelling-houses in which defects were remedied without making Closing Orders? Nil.
- (f) No. of Dwelling-houses put into a fit state of habitation after making Closing Orders? Nil.

(g) No. of Dwelling-houses demolished? Nil.

General character of defects found to exist? Minor
defects remediable under P. H. Acts.

Total number of dwelling houses inspected for the purposes
of the Housing Acts other than those inspected under
(a) above. (Not including inspections re Nuisances, &c. 5

CONCLUSION.

In conclusion I have to thank the individual members of my Staff for their willing assistance and co-operation during the year, as this being my first year of office under your Council I have had to rely to some extent on their knowledge of local conditions.

I remain,

Your obedient servant,

R. G. MARKHAM, M.B., D.P.H.,

Medical Officer of Health.

TABLE I.
Vital Statistics of Whole District during 1920 and previous years.

Year	Population estimated to Middle of each year	Births			Total Deaths registered in the District.		Transferable Deaths		Nett Deaths belonging to the District			
		Un-corrected Number	Nett		Number	Rate	of Non-Residents registered in the District	of Residents not registered in the District	Under 1 year of age		At all ages	
			Number	Rate					Number	Rate per 1000 Nett Births		
												Number	Rate	Number	Rate per 1000 Nett Births
I	2	3	4	5	6	7	8	9	10	11	12	13
1911	39500	718	724	18.3	353	8.9	4	51	56	77	400	10.1
1912	40000	673	677	16.9	438	10.9	8	44	63	93	474	11.8
1913	41000	707	710	17.3	414	10.1	9	66	65	91	471	11.5
1914	41500	700	704	16.9	423	10.2	5	59	86	122	477	11.4
1915	40700	614	610	15.2	400	9.8	2	49	57	92	447	10.9
1916	40000	608	608	14.1	405	10.1	10	60	68	112	463	11.7
1917	38000	443	443	10.8	381	10.4	10	77	47	106	448	12.2
1918	38000	380	380	9.3	440	12.0	11	80	43	113	513	14.05
1919	41000	391	391	9.0	446	10.7	23	61	27	69	484	11.6
1920	43095	693	693	16.08	374	8.6	11	47	54	77	410	9.5

Area of District in acres (land and water) 3,466.

At Census 1911—Total population at all ages, 39,479.

Total families or separate occupiers, 9,154.

Estimated population for Birth Rate and Death Rate 43,095.

TABLE II.
Cases of Infectious Disease notified during the year 1920.

NOTIFIABLE DISEASE	Number of Cases Notified,							Total cases notified in					Total Cases removed to Hospital and Sanatorium.		
	At all Ages	At Ages—Years.						each Ward.							
		Under 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65	65 and upwards	Bradley	Central	Netherfield	Southfield		Walverden	Whitefield
Smallpox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Plague	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria (including Membranous Group)	55	..	8	43	4	..	..	..	..	..	..	..	21	11	..
Erysipelas	21	..	..	..	2	6	..	..	7	5	6	5	21	11	..
Scarlet Fever	128	..	15	99	13	1	12	1	3	2	3	..	10	3	..
Typhus Fever	..	..	..	..	..	..	..	..	22	7	24	17	43	15	12
Enteric Fever	1	..	..	..	..	1	..	..	..	1	..	..	..	..	..
Relapsing Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	1	..	..	..	..	1	..	..	..	..	..	1	..	..	..
Cerebro-spinal Meningitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Poliomyelitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia Neonatorum	11	11	..	..	..	..	..	..	2	..	3	2	2	1	..
Pulmonary Tuberculosis	22	..	..	..	8	11	3	..	2	1	5	4	4	3	11
Other forms of Tuberculosis	23	..	1	12	5	5	..	..	3	5	5	4	5	3	..
Pneumonia	12	..	..	..	..	..	..	..	..	2	2	1	2	..	..
Malaria	1	..	..	..	..	1	..	..	..	..	1	..	..	5	..
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	275	11	24	154	32	26	15	1	39	27	49	32	87	41	23

Isolation Hospital :—Catlow (Smallpox only) 32 beds.

(Scarlet Fever only) 8 beds.

TABLE III. Causes of, and Ages at Death during 1920.

CAUSES OF DEATH		All Ages.	Under 1 year	1 and under 2 years	2 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 and upwards.
I		2	3	4	5	6	7	8	9	10
All Causes		408	54	2	7	13	17	66	107	142
(Certified)		2	..	..	..	..	..	..	..	2
(Uncertified)		..	..	..	..	..	..	..	..	..
1	Enteric Fever	1	..	..	..	..	..	1	..	..
2	Smallpox	..	..	..	..	..	..	..	..	..
3	Measles	1	..	..	..	1	..	..	..	..
4	Scarlet Fever	1	..	..	1	..	..	..	..	..
5	Whooping Cough	2	2	..	..	..	..	..	..	..
6	Diphtheria and Croup	4	..	..	1	3	..	..	..	..
7	Influenza	1	..	..	..	..	..	1	..	..
8	Erysipelas	..	..	..	..	..	..	..	..	..
9	Pulmonary Tuberculosis	27	..	..	..	..	3	16	7	1
10	Tuberculous Meningitis	..	..	..	..	..	..	..	..	..
11	Other Tubercular Diseases	5	..	..	1	2	1	1	..	..
12	Cancer, malignant disease	50	..	..	..	..	..	7	27	16
13	Rheumatic Fever	2	..	..	..	2	..	..	..	..
14	Meningitis	2	..	..	..	..	1	1	..	..
15	Organic Heart Disease	36	..	..	..	..	1	7	12	16
16	Bronchitis	47	6	..	..	..	..	6	8	27
17	Pneumonia (all forms)	23	5	2	2	1	2	4	3	4
18	Other Respiratory Diseases	5	..	..	..	..	..	..	4	1
19	Diarrhoea, &c. (under 2 years)	4	4	..	..	..	..	..	..	..
20	Appendicitis and Typhlitis	..	..	..	..	..	..	..	..	..
21	Cirrhosis of Liver	1	..	..	..	..	..	..	1	..
21a	Alcoholism	..	..	..	..	..	..	..	..	..
22	Nephritis and Bright's Disease	14	..	..	..	..	1	2	8	3
23	Puerperal Fever	1	..	..	..	..	1	1	..	..
24	Parturition, apart from Puerperal Fever	3	..	..	..	..	1	2	..	..
25	Congenital Debility, Etc.	22	22	..	..	..	..	..	..	..
26	Violent Deaths, excluding Suicide	7	..	..	1	1	1	1	3	..
27	Suicide	3	..	..	..	..	..	1	1	1
28	Other Defined Diseases	146	15	..	1	3	6	15	32	74
29	Causes ill-defined or unknown	2	..	..	..	..	..	..	1	1
Totals		410	54	2	7	13	17	66	107	144

Infantile Mortality during the Year 1920.

TABLE IV.

Nett Deaths from stated causes at various ages under one year.

CAUSES OF DEATH		Under 1 day	1 and 2 days	2 and 3 days	3 and 4 days	4 and 5 days	5 and 6 days	6 and 7 days	Total under 1 week	1 and 2 w'ks	2 and 3 w'ks	3 and 4 w'ks	Total under 4 w'ks	1 and 3 mths	3 and 6 mths	6 and 9 mths	9 and 12 mths.	Total under 1 year
All Causes	Certified	8	7	..	3	1	1	1	..	2	4	3	..	7	8	5	4	54
	Uncertified	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Small-pox		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping Cough		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria and Croup		..	..	..	..	..	..	..	..	..	..	1	1	..	..	1	..	2
Erysipelas		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tuberculous Meningitis		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Abdominal Tuberculosis		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Tuberculous Diseases		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Meningitis (not Tuberculo's)		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Convulsions		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Laryngitis		..	..	..	..	..	..	..	1	..	..	..	2	..	..	..	..	2
Bronchitis		..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Pneumonia (all forms)		..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	1	6
Diarrhoea		..	..	..	..	..	..	..	..	..	..	..	..	1	2	1	1	5
Enteritis		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gastritis		..	..	..	1	..	..	..	1	..	..	..	1	2	1	..	..	4
Syphilis		..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1
Rickets		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Suffocation, overlying		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Injury at Birth		1	1	..	..	..	..	..	2	..	..	..	2	..	..	..	..	2
Atelectasis		1	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	1
Congenital Malformations		1	4	..	..	..	..	1	7	..	..	1	10	..	..	..	..	8
Premature Birth		4	1	..	1	..	..	1	6	2	2	1	5	2	1	..	..	10
Atrophy, Debility, Marasmus		1	1	..	..	1	..	..	3	..	1	..	..	2	1	1	2	8
Other Causes		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
Totals		8	7	..	3	1	1	1	21	2	4	3	30	7	8	5	4	54

Nett Births during the Year { legitimate, 663.
illegitimate. 30.

Nett Deaths during the Year of { legitimate infants, 52.
illegitimate infants, 2.

BOROUGH OF NELSON.

ANNUAL REPORT

OF THE

SCHOOL

MEDICAL OFFICER

FOR 1920.

R. G. MARKHAM, M.B., D.P.H.,

School Medical Officer

JUNE, 1921.

To the Chairman and Members of the Education Committee.

GENTLEMEN,

I have pleasure in submitting the Annual Report of the work of the School Medical Staff for the year 1920.

STAFF.

The Staff consists of the Medical Officer and two trained Nurses.

CO-ORDINATION.

The control of the work for Infant and Child Welfare and of Children under school age is entirely under the Public Health Committee whose Officer is also the School Medical Officer. There are no Nursery Schools in the Borough.

SCHOOL MEDICAL SERVICE IN RELATION TO PUBLIC ELEMENTARY SCHOOLS.

SCHOOL HYGIENE.

There are 12 schools in the Borough excluding the Secondary School, of which 4 are Council Schools of fairly recent construction, the others being of an older type of building. In all, however, attention is paid to the ventilation, warming, sanitation, and cleanliness, and all have an adequate water supply for washing and drinking purposes.

MEDICAL INSPECTION.

The children are inspected under one of three headings, viz., Entrants, Intermediate (age 8), and Leavers, and Table 1 at the end of the Report gives the detailed number of the children examined in each group for the year. Notes were made on the individual schedules of any defect found and observation taken as to any previous notes that had been made.

In all 1821 children were examined in the routine inspection, and 125 were examined at special examinations. The defects noted at these examinations amounted to 883 of which 121 were for uncleanness either of the head or body.

Table 2 gives in detail the defects under the various headings, the following being a summary.

Defects.	Number. found.
Malnutrition	41
Uncleanliness	121
Defect or Disease of Skin	28
,, Eye	103
,, Ear	45
,, Nose and Throat	403
,, Heart and Circulation	28
,, Lungs	47
,, Nervous System	23
Rickets	9
Deformities	25
Other Defects or Diseases	10

INFECTIOUS DISEASE.

There has only been one occasion during the year on which it was thought advisable to close a School on account of Infectious Disease. This was in the second week of December when an outbreak of German Measles accompanied by an increased number of cases of Scarlet Fever warranted the closing of the Infants Department of Great Marsden School until after the Christmas holidays.

A table has been prepared, No. 12, and is submitted shewing the number of notifications of cases of Diphtheria and Scarlatina amongst children attending school and the various schools affected.

FOLLOWING UP.

341 defects were found in the course of the Medical Inspection which were followed up by the School Nurses, and Table 7 gives in detail the defects, and also the result of the action that has been taken. In addition, every defect found during the routine inspection is noted, and these children are re-inspected on the occasion of the next medical examination at the school.

SCHOOL CLINIC.

This comprises a treatment clinic for (a) minor ailments, (b) refractions, (c) the X Ray treatment of ringworm, (this latter was only installed towards the end of the year and is at present housed in a temporary room of an unsuitable character), and (d) Dental clinic.

During the year 1125 children have attended the School Clinic and have paid a total of 14,626 visits. The number of defects found requiring treatment was 1128 and with 89 on the books at the beginning of the year gives a total of 1,217 cases. Of these 1,032

have been discharged, 845 cured, 131 improved, and 56 unchanged, leaving 185 still under treatment at the close of the year. Table 5 gives in detail the cases treated at the Clinic, Table 6 deals with the cases of defective vision dealt with during the year, whilst Table 9 gives details of the attendances at the Clinic month by month.

OPEN AIR EDUCATION.

There are no residential open air schools or day open air schools in the Borough nor are there any open air classrooms in any of the Public Elementary Schools.

Playground classes are left to the discretion of the various Head Teachers and have not come under the jurisdiction of the School Medical Service.

PHYSICAL TRAINING.

This is not dealt with by the School Medical Service.

PROVISION OF MEALS.

During the year 1.095 meals have been provided to 12 necessitous school children, the arrangements being carried out as in previous years.

SCHOOL BATHS.

The Corporation Baths in Bradley Road are used by the School Children during the summer months and instruction in swimming is given by qualified instructors. During the year there have been 13.242 attendances at the Baths by children from the Elementary Schools, and 911 attendances by pupils from the Secondary School.

CO-OPERATION OF PARENTS, TEACHERS, AND SCHOOL ATTENDANCE OFFICERS.

Parents are notified prior to each examination taking place at the school and are invited to attend. Many of them do so and it is found to be of great assistance when any defect is observed during the examination of a child to have the parent present to whom more explicit information can be given than is the case when there is only the child present. In these latter cases, however, when no parent or guardian is present, the School Nurse visits the home and when necessary suggests either an interview with the School Medical Officer at the Clinic, or the calling in of their own Medical Advisor in order to secure treatment.

A large number of the children attending the Clinic are sent by the Teachers at the various schools and their co-operation renders the service much more efficient, and assistance is also rendered by the Teachers during the course of the routine inspections. Similarly the School Attendance Officers in the course of

their duties are instrumental in obtaining advice or treatment under the School Medical Service for children in whose interests it may be necessary. Moreover the School Attendance Department and the Head Teachers are supplied with a copy of all certificates issued by the School Medical Officer from the School Clinic relating to the exclusion from school of any child suffering from any disease or defect warranting such exclusion, and also with a copy of the Certificate issued authorising their re-admission to school.

CO-OPERATION OF VOLUNTARY BODIES.

No scheme of definite co-operation or assistance from any voluntary organisation is in operation. Certain individual help is however rendered and Mr. R. Landless, acting on behalf of the late Sir John Thursby and his Executors, is worthy of the thanks of your Committee, as through his generosity 40 children have been sent to the Thursby Convalescent Home at St. Annes.

BLIND, DEAF, DEFECTIVE, AND EPILEPTIC CHILDREN.

There are no special schools in the Borough for the educating of these children. The Head Teachers of the various schools however bring to the notice of the School Medical Officer any defective child and they are examined. Arrangements are made when necessary for the children to attend the Certified Schools at Burnley dealing with these classes of children.

NURSERY SCHOOLS.

There are no Nursery Schools in the Borough.

SECONDARY SCHOOLS.

The Medical Inspection of the children attending the Secondary School is carried out by the County Authorities under their School Medical Services. I have, however, on occasion made a special examination of certain scholars who have been sent to the School Clinic when illness of a suspicious character has developed in a class, and have recommended the exclusion of 3 scholars, 2 of whom were suffering from Tonsillitis, and 1 from Ringworm.

CONTINUATION SCHOOLS.

No medical inspection is made of pupils attending Continuation Schools.

EMPLOYMENT OF CHILDREN AND YOUNG PERSONS.

No examination of children with a view to their employment was made during the year. A few school children are engaged in the delivery of milk or newspapers.

SPECIAL INQUIRIES.

Three special inquiries have been made during the year dealing with outbreaks of disease at schools, in each case the Infants Department being affected. Chicken-pox and Measles were responsible for the enquiries, but the closing of one School as previously mentioned, and the disinfection of a second school was the only action found necessary to be taken.

In conclusion I have to thank the Members of my Staff for their willing co-operation during the year, and also the Head-masters and Head-mistresses of the various Schools.

I am,

Your obedient servant,

R. G. MARKHAM, M.B., D.P.H.

School Medical Officer.

TABLE I.
Number of Children inspected 1st January, 1920, to 31st December, 1920.

ROUTINE.																	Special	Grand Total
	Entrants.						Intermediate Group.				Leavers.					Total		
	Ages	3 years	4 years	5 years	6 years	other ages	Total	7 years	8 years	9 years	Total	11 years	12 years	13 years	other ages	Total		
Boys	25	109	128	38	33	333	28	229	33	290	13	204	36	1	254	67	944	
Girls	27	101	133	32	46	339	27	242	36	305	21	229	48	2	300	58	1002	
Totals ..	52	210	261	70	79	672	55	471	69	595	34	433	84	3	554	125	1946	

TABLE II.

Return of Defects found in the course of Medical Inspection in 1920

DEFECT OR DISEASE.		Code Group		Specials	
		Number referred for treatment	Number requiring to be kept under observ'tion but not referred for treatment	Number referred for treatment	Number requiring to be kept under observ'tion but not referr'd for treatment
MALNUTRITION.....	.....	41	..	2	..
UNCLEANLINESS ..	Head..... Body.....	103 18	.. ..	1 ..	.. ..
SKIN	Ringworm { Head	3	..	1	..
	} Body	2	..	1	..
	Scabies.....	..	..	..	..
	Impetigo	7	..	1	..
	Eczema	4	..	1	..
	Alopecia	1	..	..	..
	Seborrhœa	6	..	..	..
	Psoriasis.....	1	..	1	..
	Other Diseases	4	..	1	1
EYE	Defective Vision & Squint †	91	77	11	6
	External Eye Disease ...	20	..	..	..
	Corneal Ulcer	1	..	..	..
EAR	Defective Hearing.....	22	6	2	1
	Otorrhœa.....	8	..	..	..
	Wax in Ears	8	..	..	..
	Perforation of Ear Drum..	..	1	..	..
NOSE AND THROAT	Tonsils	108	14	5	..
	Tonsils and Adenoids	16	..	2	..
	Adenoids	48	..	2	..
	Glands	36	142	2	5
	Harelip.....	..	1	..	..
	Cleft Palate	..	1	..	2
	Defective Speech	..	12	..	3
	Other Diseases	..	25	1	..
HEART AND CIRCULATION ..	Mitral Murmur	..	13	..	1
	Heart Disease.....	..	4	..	2
	Valvular Disease	..	7	..	..
	Mitral Systolie	..	1	..	..
	Irregular Action.....	..	1	..	..
	Anæmia	2	..	..	..
LUNGS	Bronchitis	30	..	1	..
	Bronchial Catarrh.....	1	..	..	..
	Fibroid.....	..	4	..	..
	Defective Expansion.....	..	10	..	1
	Pre. Tubercular	2	..	..	..
NERVOUS SYSTEM	Epilepsy	..	1	..	..
	Chorea	2	..	1	..
	Other Diseases	..	20	..	..
RICKETS.....	.....	9	..	3	..
DEFORMITIES.....	Dwarfs	..	3	..	..
	Curvature of Spine	..	8	..	1
	Paralysis	..	3	..	1
	Other Defects	..	11	1	4
Other Defects or Diseases .....	.....	4	6	2	4

† 6/9 in one or both eyes referred for observation.

Over 6/9 referred for treatment.

TABLE III.
Numerical Return of Exceptional Children in Area, 1920.

		Boys	Girls	Total
BLIND (including partially blind)	Attending Public Elem't'ry Schools	1	1	2
	Attending Certified Schools for the Blind.....	4	1	5
	Not at School.....	..	..	..
DEAF & DUMB (including partially deaf)	Attending Public Elem't'ry Schools	1	..	1
	Attending Certified Schools for the Deaf.....	1	..	1
	Not at School.....	..	..	..
MENTALLY DEFICIENT	Feeble minded			
	Attending Public Elem't'ry Schools	6	..	6
	Attending Certified Schools for Mentally Defective Children..	1	..	1
	Not at School.....	..	..	..
	Imbeciles			
	At School	..	..	..
EPILEPTICS	Not at School.....	..	..	..
	Idiots			
	At School	..	..	..
PHYSICALLY DEFECTIVE	Attending Public Elem't'ry Schools	2	..	2
	Attending Certified Schools for Epileptics....	..	..	..
	Not at School.....	..	..	..
	Pulmonary Tuberculosis			
	Attending Public Elem't'ry Schools	..	..	..
	Attending Certified Schools for Physically Defective Children..	..	..	..
	Not at School.....	..	..	..
	Other forms of Tuberculosis			
	Attending Public Elem't'ry Schools	6	4	10
	Attending Certified Schools for Physically Defective Children..	..	..	..
	Not at School.....	..	..	..
	Cripples other than Tubercular			
DULL OR BACKWARD §	Attending Public Elem't'ry Schools	6	5	11
	Attending Certified Schools for Physically Defective Children..	..	..	..
	Not at School.....	..	..	..
	Retarded 2 years	25	23	48
	Retarded 3 years	16	13	29

§ Judged according to Age and Standard.

TABLE IV.

1. The total number of children medically inspected.	1946
2. The total number of defects found in the course of Medical Inspection (other than uncleanliness or defective clothing or footgear) which require to be kept under observation, but not referred for treatment.	403
3. The total number of defects found in the course of Medical Inspection (other than uncleanliness or defective clothing or footgear) which were referred for treatment.	428
4. The number of defects found and referred for treatment in (3) which have received treatment.	Approximately 66%
5. Number of children examined suffering from defects and who were referred either for treatment or observation. Including uncleanliness of Head or Body (122).	740

TABLE V.

Annual Return of Medical Cases treated at the
School Clinic, 1920.

DEFECT.	From prev's year	New	Total	Disch- arged	Left on Books	Result of Treatment		
						Cured	Imp'd	Unc'd
Verminous Heads.....	12	104	116	100	16	80	19	1
Ringworm Head	15	74	89	61	28	57	2	2
" Other	5	26	31	28	3	28	..	..
Impetigo	17	281	298	273	25	272	..	1
Eczema	2	14	16	12	4	5	7	..
Scabies	..	50	50	43	7	43	..	..
Alopecia	2	9	11	10	1	5	4	1
Seborrhoea	1	46	47	42	5	33	7	2
Blepharitis.....	5	29	34	23	11	19	4	..
Conjunctivitis	1	30	31	24	7	19	5	..
Corneal Ulcer	..	6	6	6	..	3	3	..
Otorrhoea	10	39	49	33	16	18	15	..
Wax in Ears.....	..	29	29	22	7	22	..	..
Other Deafness	..	1	1	1	..	..	..	1
Vision	16	117	133	109	24	78	12	19
Tubercular Glands	..	10	10	10	..	..	9	1
Deformities	..	3	3	3	..	..	..	3
								1 dece'd
Valvular Dis'se of Heart	..	2	2	2	..	..	..	1
Infantile Paralysis	..	1	1	1	..	..	..	1
Mentally Defective	..	1	1	1	..	..	..	1
Other Diseases	3	256	259	228	31	163	44	21
Total	89	1128	1217	1032	185	845	131	56

TABLE VI.

Annual Return of Cases of Defective Vision inspected at the
School Clinic 1920.

Defect.	Number Inspected	Ordered Spectacles	Not ordered Spectacles	Spectacles provided
Hypermetropia	28	24	4	24
Myopia	16	11	5	11
Hypermetropic Astigmatism	15	9	6	9
Myopic Astigmatism.....	5	3	2	3
Mixed Astigmatism	6	2	4	2
Hypermetropia and Hypermetropic Astigmatism	24	19	5	19
Myopia and Myopic Astigmatism ...	2	2	...	2
Other Causes.....	8	5	3	5
Total.....	104	75	29	75

Annual Return of Cases of Defective Vision Re-Inspected .
1920.

Defect.	No. Re- inspected	Ordered Spectacles	Wearing Spectacles.	
			Spectacles changed	Spectacles not chang'd
Hypermetropia	16	...	7	9
Myopia	6	...	1	5
Hypermetropic Astigmatism	12	...	3	9
Myopic Astigmatism	4	...	1	3
Mixed Astigmatism	2	...	...	2
Other Causes.....	4	...	...	4
Total	44	...	12	32

TABLE VII.

Defects found in course of Medical Inspection in 1920
and followed up by School Nurse.

Defect.	No. found	Cured	Im- proved	Un- changed
Enlarged Tonsils	109	11	56	42
Adenoids... ..	8	2	6	...
Tonsils and Adenoids	10	...	9	1
Glands	36	...	36	...
Defective Speech	2	...	...	2
Uncleanliness—Head	1	1	...	...
" Body	2	2	...	...
Defective Teeth.....	6	6	...	...
Ringworm on Body	1	1	...	...
Defective Vision	76	36	...	40
Squint.....	6	...	4	2
External Eye Disease	4	...	4	...
Otorrhœa	2	...	2	...
Rickets	3	...	...	3
Bronchitis	5	...	5	...
Heart Disease	3	...	...	3
Other Diseases	67	29	14	24
Total.....	314	88	136	117

TABLE VIII.

Inspection of Children attending the Secondary School
during 1920.

Defects.	Boys	Girls	Total
Ringworm on head	1	...	1
Tonsilitis	2	...	2
Total.....	3	...	3

TABLE IX.
Monthly Summary of Work at Clinic.

Month	No. of children undischarged at end of month.	No. of children admitted during month	No. of children discharged during month	No. of children under treatment at end of month.	No. of Visits by children to Clinic.	No. of Homes visited by Nurse.	No. of Visits to Home.	No. of pairs of Spectacles supplied or ordered	No. of children examined by Nurse at School
Jan.	89	123	51	161	1470	69	72	...	315
Feb.	161	92	82	171	1629	42	47	9	...
Mar.	171	125	121	175	1749	56	56	4	734
April	175	72	91	156	1263	34	38	...	487
May	156	104	100	160	1436	51	57	...	755
June	160	68	65	163	996	85	86	10	455
July	163	17	33	147	377	12	12	5	...
Aug.	147	124	89	182	1311	79	83	3	680
Sept.	182	60	55	187	972	61	64	...	...
Oct.	187	87	76	198	1354	58	60	9	886
Nov.	198	103	60	241	1260	126	127	11	703
Dec.	241	61	117	185	1809	61	61	13	...
Total	...	1036	940	...	626	734	763	64	5015

No. of children attending during year : 1125.

Average Attendance - - - 13.

TABLE X.
Anthropometric Table shewing average Height and Weight of Children examined at various ages.

Age	Boys.		Girls	
	Height in inches	Weight in pounds	Height in inches.	Weight in pounds.
3 years	37.46	33.51	35.4	31.15
4 "	39.64	37.8	39.14	36.41
5 "	41.4	40.1	41.5	39.4
6 "	43.84	44.3	43.5	43.25
7 "	45.68	47.3	45.71	47.81
8 "	48.23	53.3	47.42	50.82
9 "	50.19	58.29	49.69	55.94
10 "	52.40	62.37	51.80	61.45
11 "	54.54	67.98	53.48	66.65
12 "	55.54	73.63	55.82	76.2
13 "	57.04	80.65	57.67	79.62
14 "	58.62	89.75	57.7	80.63
15 "	60.75	100.5	62.25	111.5

TABLE XI.

Condition of Children examined by Nurses at School.

Number of surprise visits paid to Schools : 61.

Result of Examination :—

		Number examin'd	Clean	Few Nits	Many Nits	Pedi- culi
BOYS	Mixed Departments	1709	1705	1	1	2
	Infants' Departm'ts	843	839	..	1	3
GIRLS	Mixed Departments	1758	1573	85	77	23
	Infants' Departm'ts	731	640	51	29	11
Totals ..		5041	4757	137	108	39

TABLE XII.

Monthly Incidence of Cases of Scarlet Fever and
Diphtheria from the various Schools during 1920.

School	Scarlet Fever.													Diphtheria											
	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Bradley	1	..	3	2	..	..	..	..	..	..	1	1	8	..	..	1	..	1	..	..	..	..	..	..	1
Bradshaw St.	1	2	3	2	1	1	1	..	1	6	7	3	28	1	1	5	3	..	1	..	..	..	..	..	1
Walverden ...	1	..	1	..	..	1	..	1	1	..	3	2	10	1	..	..	..	..	1	..	..	..	..	..	1
Whitefield ...	..	..	..	..	..	..	1	1	1	..	..	..	3	1	..	1	..	..	1	..	..	..	1	..	..
Lomeshaye...	1	1	..	1	..	..	..	1	..	..	..	..	4	..	..	3	1	..	..	..	..	..	..	..	..
Leeds Road	..	..	1	1	4	..	..	..	1	..	..	..	7	1	..	..	..	..	1	..	..	..	..	..	1
St. John's ...	..	2	..	..	..	..	..	..	..	..	4	8	14	2	..	..	..	..	2	..	1	1	..	..	..
St. Paul's ...	..	..	..	..	..	..	..	..	1	1	..	1	3	..	1	..	..	1	..	..	..	..	..	..	..
Carr Road ..	1	..	1	..	..	..	..	..	..	1	1	..	4	1	..	..	..	..	..	..	..	..	..	..	..
St. Joseph's	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
St. George's	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
H'y Saviour's	1	..	..	..	..	..	..	..	1	1	..	3	..	..	..	..	..	..	1	..	..	..	..	..	..
Secondary ...	1	..	1	..	..	..	..	..	1	1	1	1	6	..	..	..	..	..	..	..	..	..	..	..	2
Sch'ol outside Borough	..	..	..	1	1	..	..	..	..	..	..	..	2	..	..	..	..	..	..	1	..	..	..	..	..
Total	7	5	10	7	6	3	2	3	5	11	18	16	93	7	2	10	4	2	6	1	2	1	...	1	74

BOROUGH OF NELSON.

Seventh Annual Report
OF THE
School Dental Clinic
For the Year 1920.

THOMAS JACKSON, L.D.S.

Dental Surgeon.

School Clinic,

11, Carr Road,

Nelson, Dec., 1920.

DENTAL DEPARTMENT.

To the Members of the Nelson Education Committee.

MR. CHAIRMAN, LADY AND GENTLEMEN,

I have the honour and pleasure to submit to you my Seventh Annual Report as School Dentist for the year 1920.

During the year all the children in the various schools, of the ages from 6 years to 12 years have been inspected and opportunity given for treatment, as per your instructions, so that the children who were 6 years of age in 1914 have been inspected and opportunity afforded them of receiving dental treatment practically during the whole of their school-life.

Facilities have been afforded to all parents to be present at the inspections of the children, but very few indeed have accepted the invitation to be present. Many more parents bring their children to the Clinic for treatment, and see for themselves the treatment given and many express themselves in gratitude for it.

I do not wish to weary you with a great deal of figures as showing the results of each years treatment and inspection as in former years, as these figures have increased year by year, but have contented myself with giving a Summary of those figures.

The work of the year was somewhat interfered with by the break-down in my health, but I was ultimately enabled to complete the whole of my work before the close of the year. I take this opportunity of thanking you very sincerely for your kindly consideration and leniency during my enforced absence, I greatly appreciated it, and it was no doubt helpful towards my recovery.

In my previous reports I have drawn your attention to certain facts and dental conditions of the children which I considered worthy of mention. The same prevails this year, only a little more so, but one very outstanding prominent fact for the year deserves mentioning, that the percentage of children requiring no dental treat-

ment has gone up in the aggregate from 17.93 in 1919 to 26.07 in 1920; also that the percentage of children requiring urgent treatment has decreased 2.55 per cent. and those requiring treatment have decreased 6 per cent. This speaks volumes for the success of your Clinic in the continued treatment of the children and for the principle that each child should have the opportunity of being inspected and treated once during each year of school life.

The School Nurse has paid 292 Visits to the parents of children of six years of age to explain to them why Dental treatment is so necessary at this age.

In all I have spent 63 half-days in inspecting the children, and 120 half days in treating at the Clinic, and 6 half-days in clerical work at the end of the year, making a total of 189 half days.

I have continued to receive every assistance from the Organising Secretary and his Staff, also every courtesy and help from the Head Masters and Mistresses and Teachers, to all of whom my thanks are tendered for the manner in which they receive me and render every possible assistance whilst inspecting the children at their respective Schools, which facilitate my work considerably.

The School Nurse also continues to render me real valuable assistance in the management of the children at the Clinic. Without her help the work of the Clinic would not be so successful.

I have the honour to be,

Your obedient servant,

THOS. JACKSON, L.D.S.,

School Dentist.

Total Results of Inspections.

	No. examined.	Temporary			Permanent			Nils.	Urgents
		Sound	Savable	Un-savable	Sound	Savable	Un-savable		
6 year Girls	304	4049	500	558	1284	23	...	68	15
„ Boys	298	4153	521	536	1099	23	...	71	18
7 year Girls	271	2616	348	584	2166	51	...	49	27
„ Boys	263	2688	345	553	1811	34	...	49	23
8 year Girls	355	2096	263	777	3967	141	2	56	82
„ Boys	333	2297	307	795	3272	83	...	53	47
9 year Girls	314	1050	105	738	4128	158	11	60	79
„ Boys	308	1315	149	708	3828	122	11	60	68
10 year Girls	275	411	22	464	4649	139	27	89	75
„ Boys	273	580	44	509	3711	180	26	68	84
11 year Girls	339	205	2	397	6800	148	66	135	99
„ Boys	353	387	12	583	6358	201	54	114	107
12 year Girls	304	59	...	206	6931	164	75	143	87
„ Boys	306	118	...	353	6551	166	90	110	101
Total	4296	22069	2618	7731	56555	1633	362	1125	912

Shewing Percentages of Inspection.

	No. examined	Sound Denti- tion	Required Urgent Treatm't	Required Treatm't
6 year Girls	304	22.36	4.93	72.71
„ Boys	298	23.75	6.04	70.21
7 year Girls	271	18.08	9.88	72.04
„ Boys	263	18.25	8.74	73.01
8 year Girls	355	15.77	23.09	61.14
„ Boys	333	15.91	14.11	69.98
9 year Girls	314	19.14	25.15	55.71
„ Boys	308	19.48	22.07	58.45
10 year Girls	275	32.36	27.27	40.37
„ Boys	273	24.90	30.76	44.34
11 year Girls ...	339	39.82	29.20	30.98
„ Boys	353	32.29	30.31	37.40
12 year Girls	304	47.04	28.61	24.35
„ Boys	306	35.94	33.06	31.00
Divide by 14	4296	365.09	293.22	741.69
	306.85	26.07	20.95	53.97
Decrease (compared or 1919). Increase.	...	...	2.55	6.00
	...	8.14	...	...

PERCENTAGES OF ATTENDANCES AT CLINIC.

	Number examined	Number treated at Clinic	Percentage
6 year Girls ..	304	163	53·61
Boys	298	175	58·71
7 year Girls ..	271	167	61·62
Boys ...	263	158	60·07
8 year Girls	355	183	51·54
Boys	333	182	54·65
9 year Girls	314	148	47·13
Boys	308	144	46·75
10 year Girls ...	275	103	37·49
Boys	273	106	38·82
11 year Girls	339	82	24·18
Boys	353	108	30·59
12 year Girls	304	51	16·77
Boys	306	52	17·00
Divide by 14	4296	1822	598 93
	306·86	130	42·78

SHEWING TEETH TREATED.

	Extractions		Fillings		Dressings	
	T.	P.	T.	P.	T.	P.
6 years	759	...	151	22	469	4
7 years	779	...	55	44	384	8
8 years	969	1	32	109	305	23
9 years	757	9	7	112	93	26
10 years	451	17	...	88	8	33
11 years	321	44	...	95	3	23
12 years	118	35	...	62	4	25
Total.....	4154	106	245	532	1262	142

SHEWING TOTAL AVERAGES.

	1920.	1919.	Inc.	Dec.
Total average of attendance at Clinic ...	42.78	47.25		4.84
„ „ Sound Dentition	26.07	17.93	8.14	
„ „ Taken to own Dentist .	17.99	17.77	.22	
„ „ Refuse Treatment	11.16	13.72		2.56
„ „ Indifferent, left School after inspection and un- accounted for	2.00	3.33		1.33
	100.00	100.00		

TOTAL ATTENDANCES AT THE CLINIC FOR TREATMENT.

	Girls.	Boys.	Total.
6 years	163	175	338
7 years	167	158	325
8 years	183	182	365
9 years	148	144	292
10 years	103	106	209
11 years	82	108	190
12 years	51	52	103
	897	925	1822

In addition to above there were also the following cases:—

6 years of age, 29 special cases, and 11 paid 2nd visits.

7 years of age, 8 special cases, and 16 paid 2nd visits and 1 a 3rd visit

8 years of age, 8 special cases, and 7 paid 2nd visits.

9 years of age, 1 special case, and 2 paid 2nd visits.

10 years of age, 2 special cases, and 3 paid 2nd visits.

11 years of age, 1 special case, and 1 paid 2nd visit.

During the year the School Medical Officer, whilst inspecting the children, came across 53 girls and 35 boys, 41 of whom were under 6 years of age, 4 at 7 years of age and 29 of 8 years and over, who, in his opinion, required some minor dental treatment, and for these the following work was done.

Extractions.	Fillings.	Dressings.	Advice.
102	7	195	2